



DOCKET NO: 240076US0

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF :  
ATSUSHI FUNAKI, ET AL. : EXAMINER: CHOI, LING SIU  
SERIAL NO: 10/617,663 :  
FILED: JULY 14, 2003 : GROUP ART UNIT: 1713  
FOR: MULTI-LAYER HOSE :

DECLARATION UNDER 37 C.F.R. § 1.132

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313-1450

SIR:

I, Noriyuki Isobe, a citizen of Japan,

hereby declare and state that:

1. I have a degree in Masters of Applied Chemistry, which was  
conferred upon me in 1982 by Osaka University, Faculty of Engineering,  
located in Osaka, Japan.

2. I have been employed by Ube Industries, Ltd.  
since 1982 and I have a total of 22 years of work and research experience in the  
field of plastics.

3. Ube Industries, Ltd. manufactures a polyamide 12 blend with carbon black  
designated 3030JLX2.

4. The following experiments were carried out by me or under my direct supervision  
and control to determine the ratio of terminal amino group concentration to terminal carboxyl  
group concentration in the 3030JLX2 polyamide.

5. Using the titration methods disclosed in the above-identified specification at page 55 line 25 to page 56, line 19, the terminal group concentrations of the 3030JLX2 polyamide were measured before the polyamide was blended with carbon black.

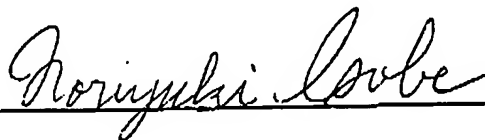
6. The measurement results showed that in the 3030JLX2 polyamide the terminal amino group concentration was 24  $\mu\text{eq/g}$  and the terminal carboxyl group concentration was 31  $\mu\text{eq/g}$

7. The ratio of terminal amino group concentration to terminal carboxyl group concentration in the 3030JLX2 polyamide was 0.77 ( $= 24/31$ ), which is less than 1.

8. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.

9. Further declarant saith not.

Date: October 5, 2004



Noriyuki Isobe

Declarant's Name (typed)